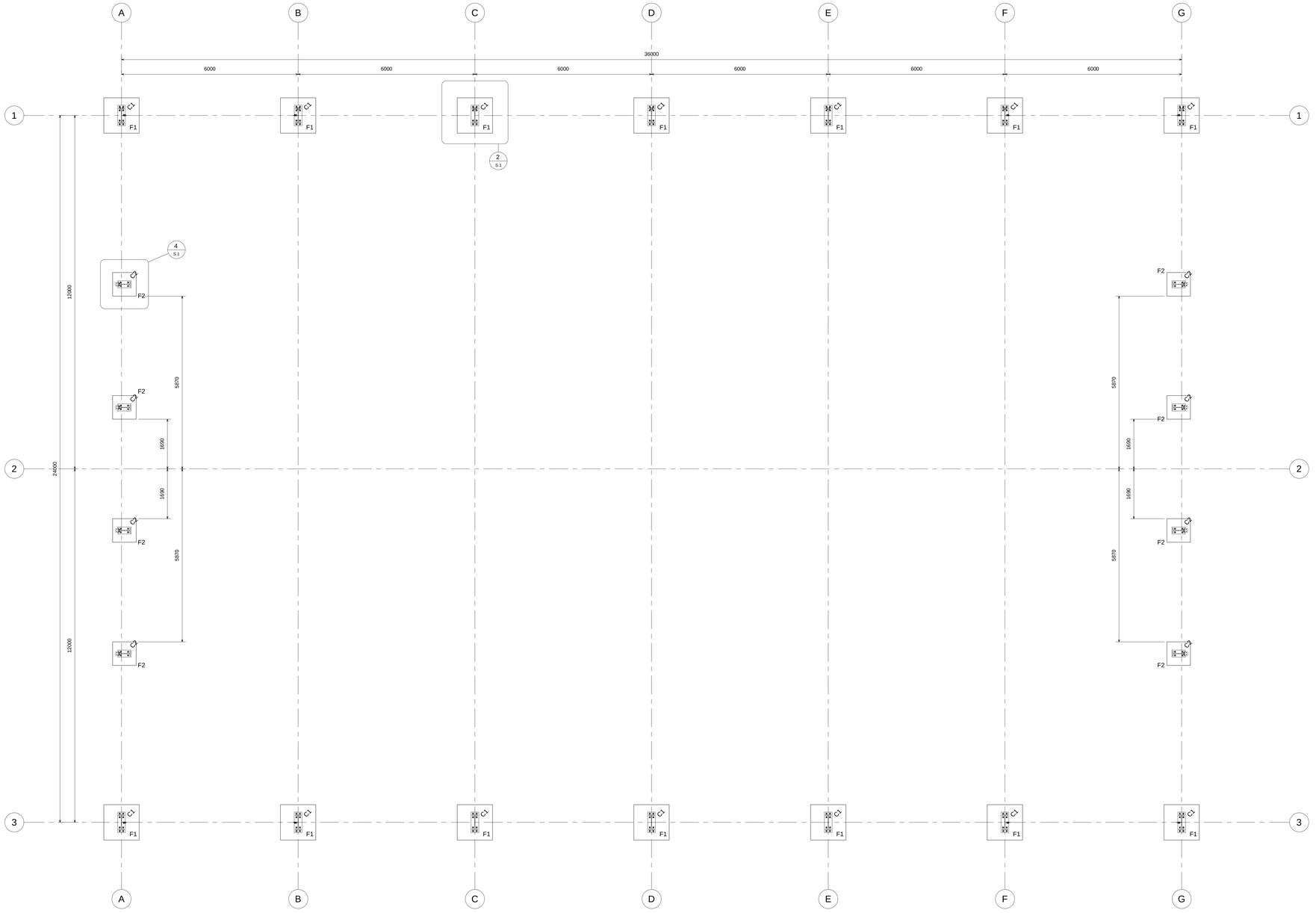
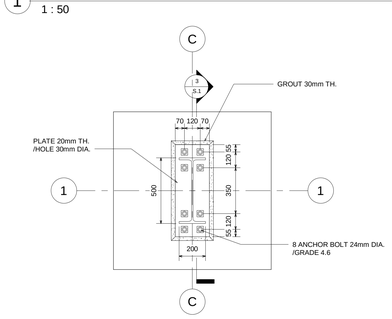
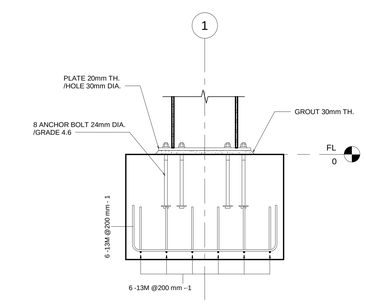


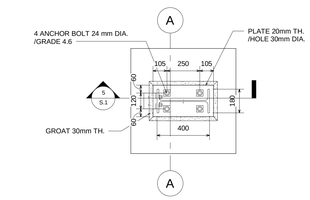
1 BASE PLATE LAYOUT
1 : 50



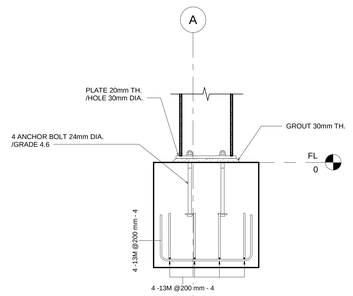
2 BASE PLATE 1
1 : 15



3 BASE PLATE 1 (SECTION)
1 : 15



4 BASE PLATE 2
1 : 15



5 BASE PLATE 2 (SECTION)
1 : 15

GENERAL NOTES	
1	ALL DIMENSIONS ARE EXPRESSED IN MILLIMETERS
2	ALL LEVELS ARE EXPRESSED IN MILLIMETERS
3	MILD STEEL 37 IS TO BE USED. YIELD STRESS SHOULD NOT BE LESS THAN 2400 KG/CM2 & STEEL 52 IS TO BE USED. YIELD STRESS SHOULD NOT BE LESS THAN 3600 KG/CM2
4	WELDING CLASS IS "GOOD WELD". MINIMUM WELD THICKNESS OF FILLET WELDS IS 6 MM.
5	MINIMUM WELD LENGTH = 50 MM
6	HIGH STRENGTH BOLTS M24(GRADE 10.9) ARE REQUIRED FOR ALL CONNECTIONS OF MAIN STRUCTURE
7	ALL MEMBERS OF HORIZONTAL BRACING ARE SINGLE ANGLES 80X80X8
8	ALL MEMBERS OF LONGITUDINAL BRACING ARE TWO ANGLES BACK TO BACK 90X90X9 INDICATED IN THE DRAWING
9	ALL MEMBERS OF VERTICAL BRACING ARE SINGLE ANGLES 90X90X9 INDICATED IN THE DRAWING

Structural Foundation Schedule

Mark	Count	Length	Width	Thickness
F1	14	1200	1200	800
F2	8	800	800	800

Base Plate Schedule

Mark	Count	Length	Width	Thickness	Weight
BASE PLATE 1	14	700	260	20	28.57 kg
BASE PLATE 2	8	460	240	20	17.33 kg

Anchor Schedule

Grade	Count	Diameter	Length	Standard	Total Weight
4.6	144	24.00 mm	500	HOLDING DOWN BOLTS	79.78 kg
					79.78 kg

Rev	Description	Date

CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

PROJECT

STEEL STRUCTURE WAREHOUSE

TITLE

BASE PLATE DETAILS

CLIENT

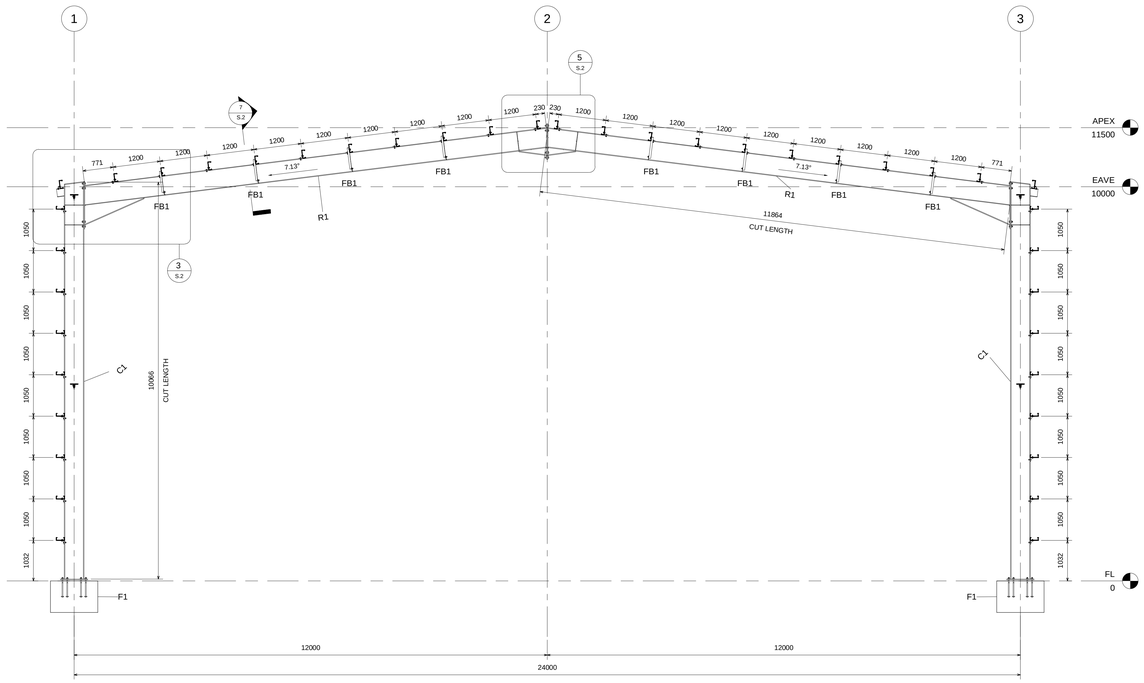
RAKON GR.

DRAWN BY	CHECKED BY	DATE
MAI	MAI	25/04/2022

SCALE (@A0)	PROJECT NUMBER
As indicated	P200

DRAWNING NUMBER	REV
S.1	

7/1/2022 9:21:29 PM



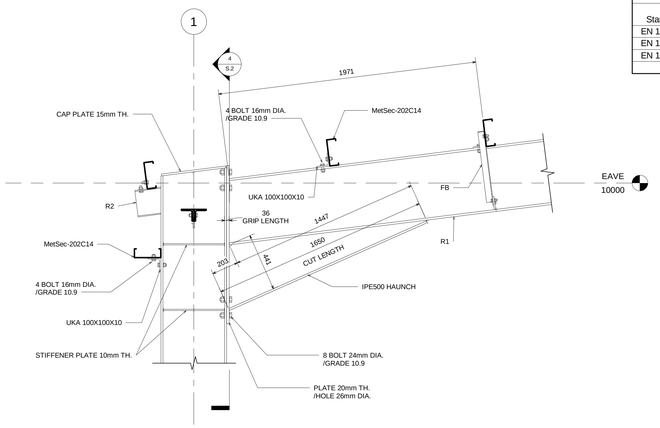
1 PORTAL FRAME AX. B TO F
1 : 50

Frame Plate Schedule					
Mark	Count	Length	Width	Thickness	Weight
CAP PLATE	14	494	195	15	158.77 kg
KNEE HAUNCH PLATE	14	1204	200	20	529.23 kg
STIFFENER PLATE	56	465	89	10	178.82 kg
					866.82 kg

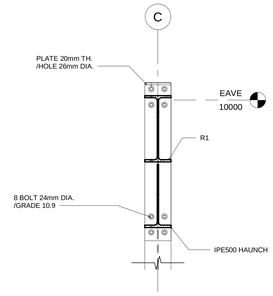
Frame Main Bolt Schedule						
Standard	Count	Diameter	Bolt Length	Grade	Grip Length	Total Weight
EN 14399-3	112	24.00 mm	75	10.9	36	6.85 kg
EN 14399-3	28	24.00 mm	80	10.9	40	3.43 kg
	140					10.28 kg

End Girts Angles Schedule				
Mark	Type	Count	Cut Length	Weight
EGA1	UKEA100x100x10	24	120	43.20 kg
EGA2	UKEA100x100x10	28	130	54.60 kg
EGA3	<varies>	4	120	12.05 kg
				109.85 kg

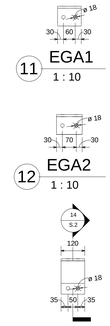
End Girts Bolt Schedule					
Standard	Count	Diameter	Bolt Length	Grade	Total Weight
EN 14399-3	108	16.00 mm	40	10.9	3.27 kg
EN 14399-3	4	16.00 mm	50	10.9	0.23 kg
EN 14399-3	52	16.00 mm	55	10.9	3.04 kg
					6.54 kg



3 TYPICAL KNEE OF FRAME HAUNCH CONNECTION
1 : 15



4 SECTION 1
1 : 15

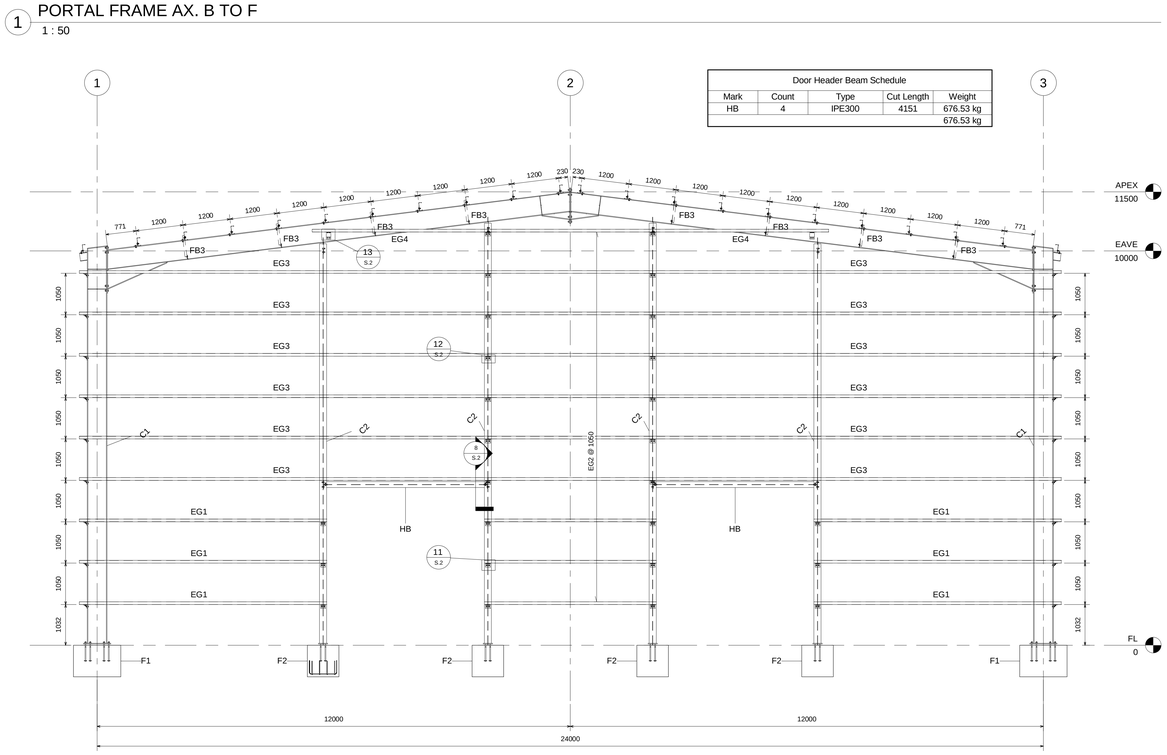


11 EGA1
1 : 10

12 EGA2
1 : 10

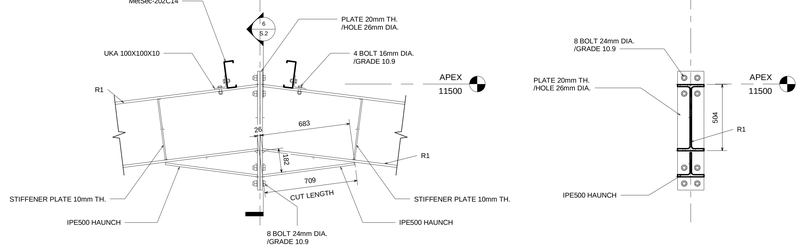
13 EGA3
1 : 10

14 EGA3(SECTION)
1 : 10



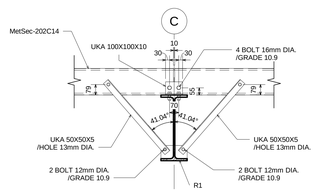
Door Header Beam Schedule				
Mark	Count	Type	Cut Length	Weight
HB	4	IPE300	4151	676.53 kg
				676.53 kg

2 END GABLE FRAME AX. A AND G
1 : 50

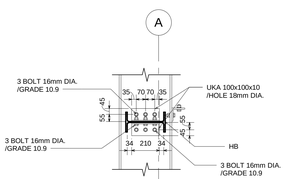


5 TYPICAL APEX CONNECTION
1 : 15

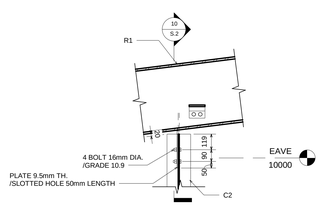
6 SECTION 2
1 : 15



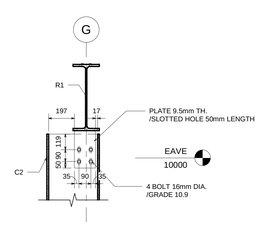
7 TYP. DETAIL FLY BRACING CONNECTION
1 : 15



8 TYP. DETAIL DOOR HEADER BEAM CONNECTION
1 : 15



9 TYP. DETAIL END GABLE COLUMN CONNECTION
1 : 15



10 SECTION 3
1 : 15

Structural Column Schedule				
Mark	Count	Type	Cut Length	Weight
C1	14	IPE500	10066	12363.85 kg
C2	4	IPE400	10131	2567.06 kg
C2	4	IPE400	10653	2699.45 kg
	22			17630.36 kg

Structural Framing Schedule				
Mark	Count	Type	Cut Length	Weight
R1	14	IPE500	11864	14571.65 kg
R2	14	UB203X133X25	200	70.34 kg
				14641.99 kg

Knee of Frame Haunch Schedule			
Type	Count	Cut Length	Weight
IPE500	14	1650	1189.97 kg
			1189.97 kg

Apex Haunch Schedule			
Type	Count	Cut Length	Weight
IPE500	14	709	870.27 kg
			870.27 kg

End Girts Schedule				
Mark	Count	Type	Cut Length	Weight
EG1	12	Metsec-202C14	6272	299.83 kg
EG2	14	Metsec-202C14	4170	232.57 kg
EG2	6	Metsec-202C14	4360	104.21 kg
EG3	24	Metsec-202C14	10357	990.22 kg
EG4	4	Metsec-202C14	4454	70.97 kg
				1697.80 kg

Rev	Description	Date

CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

PROJECT

STEEL STRUCTURE WAREHOUSE

TITLE

PORTAL FRAME DETAILS

CLIENT

RAKON GR.

DRAWN BY	CHECKED BY	DATE
Author	Checker	25/04/2022

SCALE (@A0)	PROJECT NUMBER
As indicated	P200

DRAWNING NUMBER	REV
S.2	

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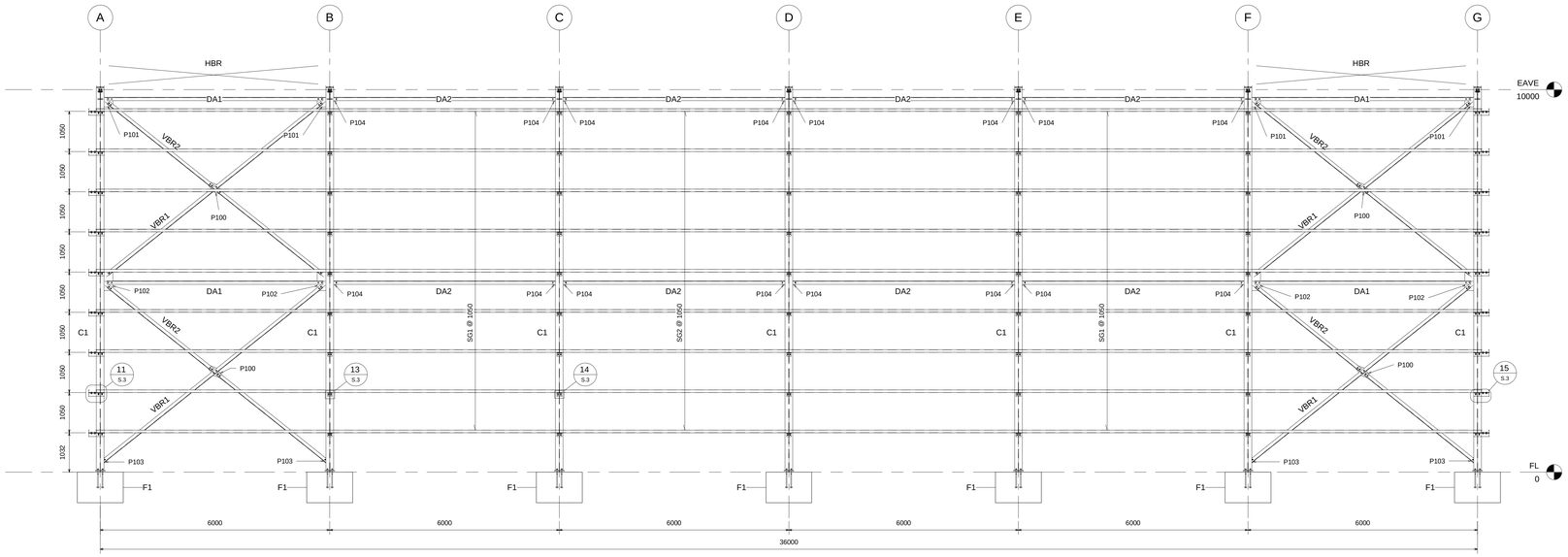
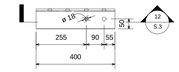


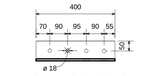
1 SIDE FRAMING AX. 1 AND 3
1 : 50

Side Angles Schedule				
Mark	Type	Count	Cut Length	Weight
SA1	UKEA100x100x10	18	400	108.00 kg
SA2	UKEA100x100x10	54	120	97.20 kg
SA3	UKEA100x100x10	36	130	70.20 kg
SA4	UKEA100x100x10	18	400	108.00 kg
				383.40 kg

Side Bolt Schedule					
Standard	Count	Diameter	Bolt Length	Grade	Total Weight
EN 14399-3	180	16.00 mm	40	10.9	5.26 kg
EN 14399-3	90	16.00 mm	55	10.9	5.26 kg
EN 14399-4	72	16.00 mm	40	10.9	11.23 kg
EN 14399-4	36	16.00 mm	55	10.9	5.62 kg
					27.36 kg



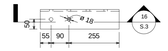
11 SA1
1 : 10



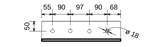
12 SA1(SECTION)
1 : 10

13 SA2
1 : 10

14 SA3
1 : 10

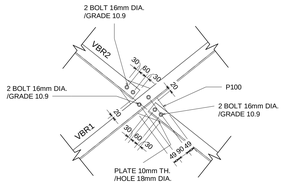


15 SA4
1 : 10

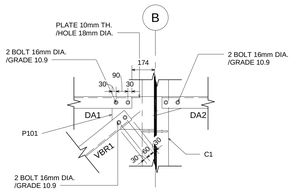


16 SA4(SECTION)
1 : 10

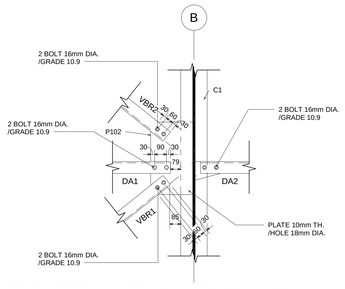
Rev	Description	Date



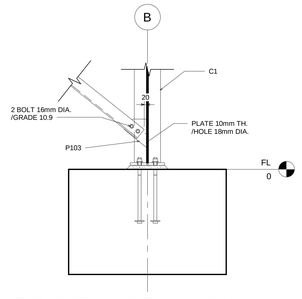
2 TYP. DETAIL VRTICAL BRACING CONNECTION 1
1 : 15



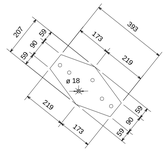
3 TYP. DETAIL VRTICAL BRACING CONNECTION 2
1 : 15



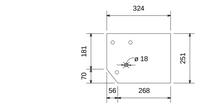
4 TYP. DETAIL VRTICAL BRACING CONNECTION 3
1 : 15



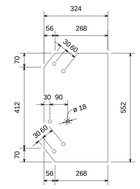
5 TYP. DETAIL VRTICAL BRACING CONNECTION 4
1 : 15



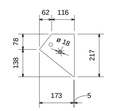
6 P100
1 : 10



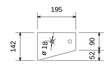
7 P101
1 : 10



8 P102
1 : 10



9 P103
1 : 10



10 P104
1 : 10

Side Girts Schedule			
Mark	Count	Cut Length	Weight
SG1	36	12095	1734.58 kg
SG2	18	11990	859.76 kg
			2594.34 kg

Side Bracing Schedule			
Mark	Count	Cut Length	Weight
DA1	16	5642	1101.72 kg
DA2	32	5900	2304.19 kg
VBR1	4	7153	349.18 kg
VBR1	4	7350	358.81 kg
VBR2	4	7153	349.18 kg
VBR2	4	7350	358.81 kg
			4821.88 kg

Side Plate Schedule					
Mark	Count	Length	Width	Thickness	Weight
P100	8	402	189	10	36.65 kg
P101	8	324	251	10	49.85 kg
P102	8	552	324	10	109.93 kg
P103	8	217	178	10	15.16 kg
P104	32	195	142	10	56.85 kg
					268.43 kg

CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

PROJECT
STEEL STRUCTURE WAREHOUSE

TITLE
SIDE FRAMING DETAILS

CLIENT
RAKON GR.

DRAWN BY	CHECKED BY	DATE
Author	Checker	25/04/2022

SCALE (@A0)	PROJECT NUMBER
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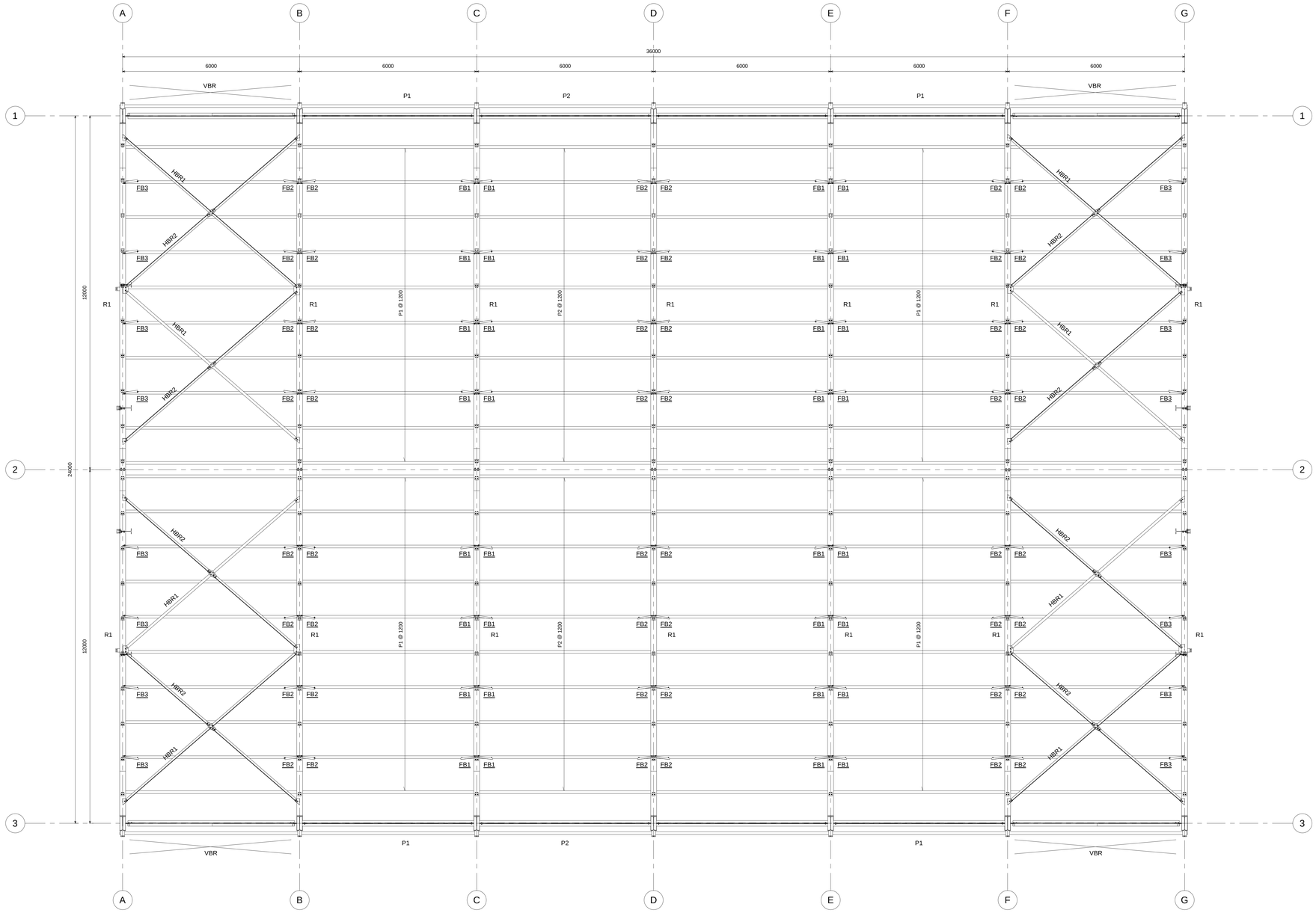
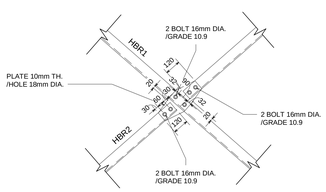
DRAWNING NUMBER	REV
S.3	

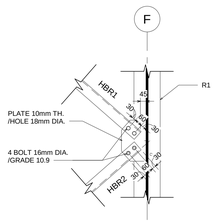
7/1/2022 9:21:41 PM



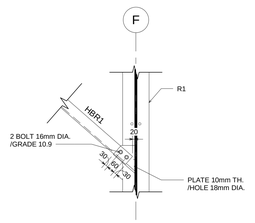
1 ROOF FRAMING LAYOUT
1 : 50



2 TYP. DETAIL HORIZONTAL BRACING CONNECTION 1
1 : 15



3 TYP. DETAIL HORIAZONTAL BRACING CONNECTION 2
1 : 15



4 TYP. DETAIL HORIAZONTAL BRACING CONNECTION 3
1 : 15

Rev	Description	Date

CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

PROJECT

STEEL STRUCTURE WAREHOUSE

TITLE

ROOF FRAMING DETAILS

CLIENT

RAKON GR.

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MAI	MAI	25/04/2022

SCALE (@A0)	PROJECT NUMBER
As indicated	P200

DRAWNING NUMBER	REV
S.4	

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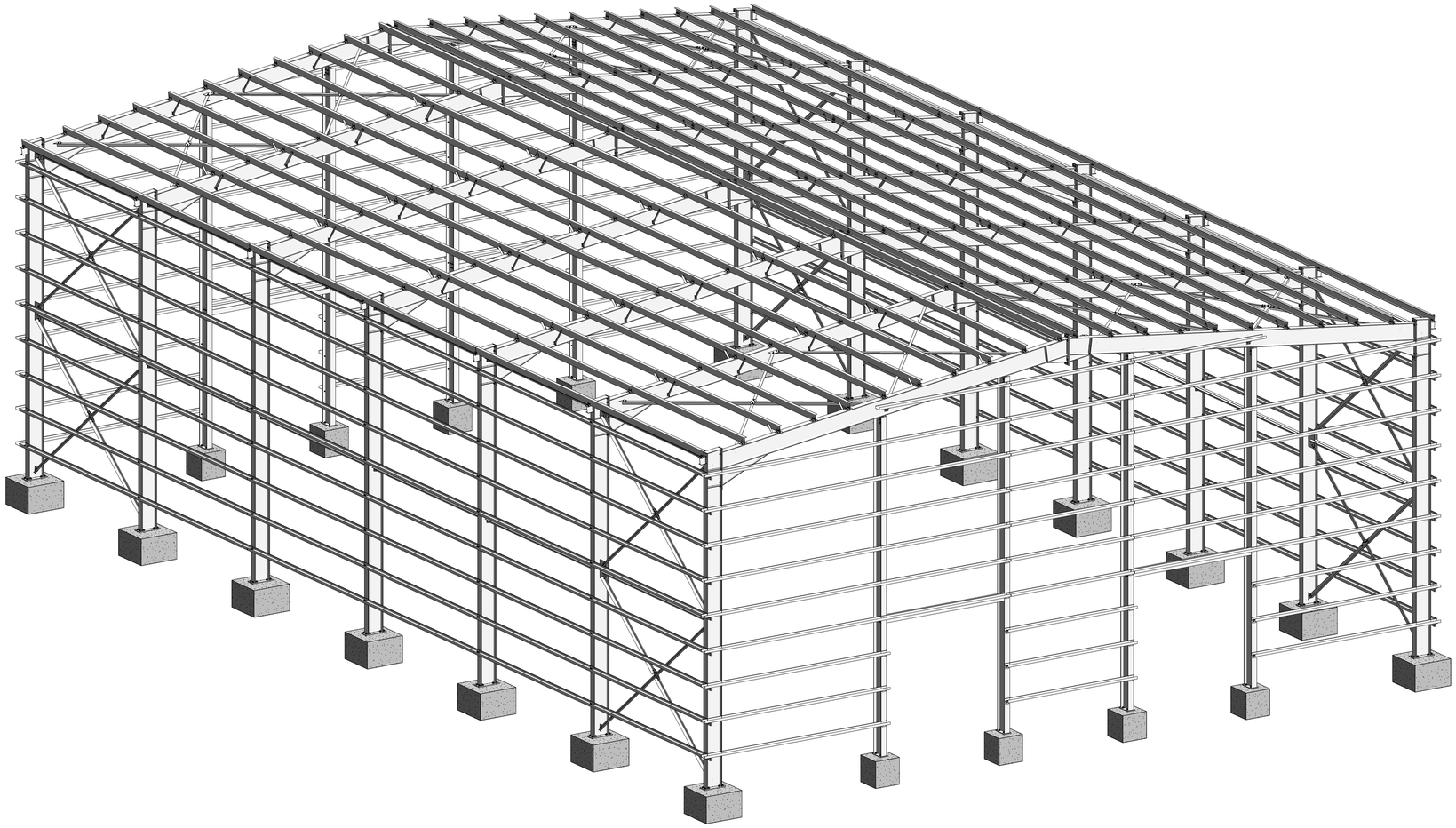

1 {3D}

Rev	Description	Date

CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

PROJECT

STEEL STRUCTURE
WAREHOUSE

TITLE

3D VIEW

CLIENT

RAKON GR.

DRAWN BY	CHECKED BY	DATE
Author	Checker	25/04/2022

SCALE (@A0)	PROJECT NUMBER
	P200

DRAWNING NUMBER	REV
S.5	

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